



# MAPPING CETACEANS AND SOUND: MODERN TOOLS FOR OCEAN MANAGEMENT



Franklin Ballroom, Four Points Sheraton, 1201 K Street NW,  
Washington, DC.  
May 23<sup>rd</sup> and 24<sup>th</sup>, 2012



## DAY 1: WEDNESDAY, MAY 23

**9:00 - NOAA Leadership Greeting** (Sally Yozell, Director of Policy, NOAA) - 10 min

**9:10 - Overview of Working Groups and Symposium** (Jolie Harrison, NOAA and Leila Hatch, NOAA) - 15 min

**9:25 - Underwater Sound Field Working Group (SFWG) Mapping Tools**

- Goals and Overview (Leila Hatch) - 10 min
- Products and Details (Mike Porter, Heat, Light and Sound Research) - 20 min

**9:55 - Cetacean Density and Distribution Working Group (CetMap) Mapping Tools**

- Goals and Overview (Sofie Van Parijs, NOAA) - 10 min
- Products and Details (Pat Halpin, Marine Geospatial Ecology Lab, Duke University) - 20 min

**10:25 - BREAK – 15 min**

**10:40 - Management Context Discussions** (Leila Hatch introduces) - 5 min

- [MANAGEMENT CONTEXT: U.S. ENDANGERED SPECIES ACT](#) (Craig Johnson, NOAA) - 20 min
- [MANAGEMENT CONTEXT: MARINE MAMMAL PROTECTION ACT MMPA](#) (Jolie Harrison) - 20 min
- [DATA AND TOOLS TO SUPPORT OCEAN PLANNING](#) (David Stein, NOAA) - 20 min
- [CUMULATIVE IMPACTS AND ANALYZING PROPOSALS](#) (Ellen Athas, Council on Environmental Quality) - 20 min

**12:05 - Logistics Announcement** (Leila Hatch) - 5 min

**12:10 - LUNCH BREAK - 90 min**

**1:40 - Interactive Presentation and Discussion of CetMap and SFWG Tools**

- Room 1 (lead by Sofie Van Parijs and Megan Ferguson, NOAA, with CetMap support) - 55 min
- Participants switch rooms – 5 min
- Room 2 (lead by Brandon Southall, Southall Environmental Associates, and Leila Hatch with SFWG support) - 55 min

**3:35 - BREAK – 15 min**

**3:50 - Panel and Plenary Discussion of CetMap and SFWG Tools** (Leila Hatch introduces) - 5 min

- Panelist presentation (Bill Ellison, Marine Acoustics, Inc.) - 5 min
- Panelist presentation (Bill Streever, British Petroleum) - 5 min
- Panelist presentation (Rob Williams, University of St. Andrews) - 5 min
- Panelist presentation (Bob Gisiner, Navy N45) - 5 min
- Full plenary discussion (Leila Hatch guides) - 60 min

**5:15 - Closing Remarks and Day 2 Reminders** (Leila Hatch) - 15 min

**5:30 - ADJOURN DAY ONE**

## DAY 2: THURSDAY, MAY 24

### 9:00 - Opening Remarks by Navy and Bureau of Ocean Energy Management (BOEM)

- Navy Leadership (John Quinn, Acting Director Energy and Environmental Readiness Division for the Chief of Naval Operations) - 10 min
- BOEM Leadership (Walter Cruickshank, Deputy Director, BOEM) - 10 min

### 9:20 - Potential Management Application Presentations (Jolie Harrison introduces) - 15 min

- [CETACEAN MAPPING APPLICATIONS: RISK ASSESSMENT AND IDENTIFICATION OF PRIORITY HABITAT](#) (Jessica Redfern, NOAA) - 20 min
- [INCLUDING UNDERWATER NOISE IN ASSESSMENTS OF THE CUMULATIVE IMPACTS OF HUMAN ACTIVITIES ON MARINE ECOSYSTEMS](#) (Carrie Kappel, National Center for Ecological Analysis and Synthesis, University of California, Santa Barbara) - 20 min
- [INTEGRATING UNDERWATER SOUND AND CETACEAN DENSITY ESTIMATES INTO REGIONAL COASTAL AND MARINE SPATIAL PLANNING: NEW DIMENSIONS FOR ANALYSIS](#) (Pat Halpin) - 20 min

### 10:35 - BREAK – 15 min

### 10:50 - Resume Potential Management Application Presentations

- [ENDANGERED SPECIES, CUMULATIVE IMPACT ASSESSMENTS, AND POTENTIAL APPLICATIONS OF CETMAP AND SOUND-FIELD MAPPING](#) (Craig Johnson) - 20 min
- [CUMULATIVE ACOUSTIC FOOTPRINTS OVER MULTIPLE SCALES: FROM BOTTOM TO TOP, FROM NOISE METRICS TO BIOLOGICAL INFLUENCES](#) (Chris Clark, Bioacoustics Research Program, Cornell Laboratory Of Ornithology, Cornell University) - 20 min
- [POPULATION CONSEQUENCES OF DISTURBANCE \(PCoD\) MODEL AND FUTURE APPLICATIONS](#) (Mike Weise, Office of Naval Research) - 20 min
- [EMPIRICAL NOISE MAPPING TO SUPPORT MANAGEMENT OF RESOURCES AND VISITOR EXPERIENCE IN NATIONAL PARKS](#) (Kurt Fristrup, National Park Service) - 20 min

### 12:10 - Wrap Up Morning/Logistics (Leila Hatch) - 5 min

### 12:15 - LUNCH - 90 min

### 1:45 - Panel and Plenary Discussion of Potential Management Applications (Leila Hatch introduces)- 5 min

- Panelist presentation (Michael Jasny, Natural Resources Defense Counsel) - 5 min
- Panelist presentation (Russell Tait, ExxonMobil) - 5 min
- Panelist presentation (Tim Ragen, Marine Mammal Commission) - 5 min
- Panelist presentation (Kathy Metcalf, Chamber of Shipping of America) - 5 min
- Full Plenary Discussion (Leila Hatch guides) - 60 min

### 3:10 - BREAK - 15 min (organize tables for break out groups)

### 3:25 - Instructions for Breakout Groups (Leila Hatch organizes) - 5 min

### 3:30 - Breakout Group Discussions - 1 hr

### 4:30 - Report-outs from breakout groups - (Leila Hatch organizes) - 30 min

### 5:00 - Marine Mammal Commission Remarks (Tim Ragen) - 15 min

### 5:15 - Closing Remarks

- Jolie Harrison - 10 min
- NOAA leadership (Richard Merrick, Director of Scientific Programs and Chief Science Advisor, National Marine Fisheries Service, NOAA) - 5 min

### 5:30 - ADJOURN MEETING